

DCDDDDDDDDDD	EEEEEEEEEEEEEE	LLL	EEEEEEEEEEEEEE	TTTTTTTTTTTTTT	EEEEEEEEEEEEEE
DDDDDDDDDDDD	EEEEEEEEEEEEEE	LLL	EEEEEEEEEEEEEE	TTTTTTTTTTTTTT	EEEEEEEEEEEEEE
DDDDDDDDDDDD	EEEEEEEEEEEEEE	LLL	EEEEEEEEEEEEEE	TTTTTTTTTTTTTT	EEEEEEEEEEEEEE
DDD	EEE	LLL	EEE	TTT	EEE
DDD	EEE	LLL	EEE	TTT	EEE
DDD	EEE	LLL	EEE	TTT	EEE
DDD	EEE	LLL	EEE	TTT	EEE
DDD	EEE	LLL	EEE	TTT	EEE
DDD	EEE	LLL	EEE	TTT	EEE
DDD	EEEEEEEEEEEE	LLL	EEEEEEEEEEEE	TTT	EEEEEEEEEEEE
DDD	EEEEEEEEEEEE	LLL	EEEEEEEEEEEE	TTT	EEEEEEEEEEEE
DDD	EEEEEEEEEEEE	LLL	EEEEEEEEEEEE	TTT	EEEEEEEEEEEE
DDD	EEE	LLL	EEE	TTT	EEE
DDD	EEE	LLL	EEE	TTT	EEE
DDD	EEE	LLL	EEE	TTT	EEE
DDD	EEE	LLL	EEE	TTT	EEE
DDD	EEE	LLL	EEE	TTT	EEE
DDD	EEE	LLL	EEE	TTT	EEE
DDD	EEE	LLL	EEE	TTT	EEE
DDDDDDDDDDDD	EEEEEEEEEEEEEE	LLLLLLLLLLLLLL	EEEEEEEEEEEEEE	TTT	EEEEEEEEEEEEEE
DDDDDDDDDDDD	EEEEEEEEEEEEEE	LLLLLLLLLLLLLL	EEEEEEEEEEEEEE	TTT	EEEEEEEEEEEEEE
DDDDDDDDDDDD	EEEEEEEEEEEEEE	LLLLLLLLLLLLLL	EEEEEEEEEEEEEE	TTT	EEEEEEEEEEEEEE

```
PPPPPPPP  UU      UU  RRRRRRRR  GGGGGGGG  EEEEEEEEEE
PPPPPPPP  UU      UU  RRRRRRRR  GGGGGGGG  EEEEEEEEEE
PP      PP  UU      UU  RR      RR  GG      GG  EEE
PP      PP  UU      UU  RR      RR  GG      GG  EEE
PP      PP  UU      UU  RR      RR  GG      GG  EEE
PP      PP  UU      UU  RR      RR  GG      GG  EEE
PPPPPPPP  UU      UU  RRRRRRRR  GG      GG  EEEEEEEE
PPPPPPPP  UU      UU  RRRRRRRR  GG      GG  EEEEEEEE
PP      UU      UU  RR      RR  GG      GG  EEE
PP      UU      UU  RR      RR  GG      GG  EEE
PP      UU      UU  RR      RR  GG      GG  EEE
PP      UU      UU  RR      RR  GG      GG  EEE
PP      UU      UU  RR      RR  GG      GG  EEE
UUUUUUUUUU  RR      RR  GGGGGG  GG      GG  EEEEEEEEEE
UUUUUUUUUU  RR      RR  GGGGGG  GG      GG  EEEEEEEEEE
```

```
LL      IIIIII  SSSSSSSS
LL      IIIIII  SSSSSSSS
LL      II      SS
LL      II      SS
LL      II      SS
LL      II      SS
LL      II      SSSSSS
LL      II      SSSSSS
LL      II      SS
LL      II      SS
LL      II      SS
LL      II      SS
LLLLLLLLLL  IIIIII  SSSSSSSS
LLLLLLLLLL  IIIIII  SSSSSSSS
```



```
1 0001 0 MODULE purge ( IDENT = 'V04-000' ! Purge directory program
2 0002 0 ADDRESSING_MODE(EXTERNAL=GENERAL)
3 0003 0 ) =
4 0004 0
5 0005 1 BEGIN
6 0006 1
7 0007 1
8 0008 1 *****
9 0009 1 *
10 0010 1 * COPYRIGHT (c) 1978, 1980, 1982, 1984 BY
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26 0026 1 * SOFTWARE ON EQUIPMENT WHICH IS NOT SUPPLIED BY DIGITAL.
27 0027 1 *
28 0028 1 *
29 0029 1 *****
30 0030 1
31 0031 1 ++
32 0032 1 FACILITY: PURGE Command
33 0033 1
34 0034 1 ABSTRACT:
35 0035 1
36 0036 1 This utility purges a directory, basically removing
37 0037 1 old versions of a specified group of files.
38 0038 1
39 0039 1 ENVIRONMENT:
40 0040 1
41 0041 1 VAX/VMS operating system. unprivileged user mode,
42 0042 1
43 0043 1 AUTHOR: Tim Halvorsen, CREATION DATE: Oct-1979
44 0044 1
45 0045 1 Modified by:
46 0046 1
47 0047 1 V03-007 SHZ0009 Stephen H. Zalewski, 15-Mar-1984
48 0048 1 Modify PURGE algorithm to make sticky searchlists work.
49 0049 1
50 0050 1 V03-006 SHZ0008 Stephen H. Zalewski, 21-Feb-1984
51 0051 1 Add support for sticky searchlists.
52 0052 1
53 0053 1 V03-005 SHZ0007 Stephen H. Zalewski, 27-Dec-1983
54 0054 1 Do defaulting of file name and type in module PURGE_FILES.
55 0055 1 Add performance enhancement that cuts down on the number
56 0056 1 of RMS $OPEN's and $CLOSE's that must be done to purge
57 0057 1 a file.
```

PURGE
V04-000

K 10
15-Sep-1984 23:39:44
14-Sep-1984 12:18:48

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58 0058 1
59 0059 1
60 0060 1
61 0061 1
62 0062 1
63 0063 1
64 0064 1
65 0065 1
66 0066 1
67 0067 1
68 0068 1
69 0069 1
70 0070 1
71 0071 1
72 0072 1
73 0073 1
74 0074 1
75 0075 1
76 0076 1
77 0077 1
78 0078 1
79 0079 1
80 0080 1
81 0081 1
82 0082 1
83 0083 1
84 0084 1 --

V03-004 SHZ0006 Stephen H. Zalewski 25-Feb-1983
If PURGE command was issued on ODS-2 disk, do not cache the
filenames before attempting to delete the files.

V03-003 SHZ0005 Stephen H. Zalewski, 4-Nov-1982 15:42
Modify PURGE to use common command qualifier package.

V03-002 SHZ0004 Stephen H. Zalewski, 26-Aug-1982 22:19
Fix bug in SHZ0003 that caused PURGE to ACCVIO if you purged
an empty directory. Also fixed bug that caused 'No files
purged' message to be printed even when files were purged.

Fix bug introduced in SHZ0003 that prevented dangling directory
entries from being deleted if the PURGE comand was issued
with /LOG qualifier.

Finally, if a file is opened because of /SINCE, /BEFORE or
/LOG qualifiers being present, leave it open until we actually
delete it to optimize the number of FAL jobs necessary to do
the job in case we are doing this over the net.

V03-001 SHZ0003 Stephen H. Zalewski, 10-Aug-1982 21:24
Clean up error handling. Modified routines to use new CLI.
Made PURGE/LOG also display size of file purged.


```
132 0235 1 GLOBAL ROUTINE purge_files (fab_block) =
133 0236 1
134 0237 1 ++
135 0238 1 Functional description
136 0239 1
137 0240 1 This routine performs all the main processing of the
138 0241 1 PURGE command. The command line has already been parsed
139 0242 1 and the qualifier values saved.
140 0243 1
141 0244 1 Calling sequence
142 0245 1
143 0246 1 purge_files(fab) from the DELETE command mainline code
144 0247 1
145 0248 1 Input parameters
146 0249 1
147 0250 1 fab_block = Address of FAB with FNA, FNS filled in.
148 0251 1
149 0252 1 Output parameters
150 0253 1
151 0254 1 None
152 0255 1
153 0256 1 Routine value
154 0257 1
155 0258 1 Status.
156 0259 1 ----
157 0260 1
158 0261 2 BEGIN
159 0262 2
160 0263 2 MAP
161 0264 2 fab_block: REF $BBLOCK; ! Address of FAB block
162 0265 2
163 0266 2 BIND
164 0267 2 nam_block = .fab_block [fab$l_nam]: $BBLOCK; ! Address of NAM block
165 0268 2
166 0269 2 LOCAL
167 0270 2 status,
168 0271 2 devnam_desc : VECTOR[2],
169 0272 2 itmlst : VECTOR[4,LONG],
170 0273 2 buffer : INITIAL(0);
171 0274 2
172 0275 4 IF ((NOT . $BBLOCK[fab_block [fab$l_dev], dev$v_dir])
173 0276 3 AND (NOT . $BBLOCK[fab_block [fab$l_dev], dev$v_net])) ! If not a directory device,
174 0277 2 THEN ! and not a network device
175 0278 2 RETURN false;
176 0279 2
177 0280 3 IF (NOT . $BBLOCK[fab_block [fab$l_dev], dev$v_net]) ! If not a network device
178 0281 2 THEN ! then check to see if
179 0282 2 BEGIN ! we are purging an ODS-2 disk.
180 0283 2 devnam_desc[0] = .nam_block[nam$b_dev];
181 0284 2 devnam_desc[1] = .nam_block[nam$l_dev];
182 0285 2 itmlst[0,16] = 4;
183 0286 2 itmlst[16,16] = dev$v_acptype;
184 0287 2 itmlst[1] = buffer;
185 0288 2 itmlst[2] = 0;
186 0289 2 itmlst[3] = 0;
187 P 0290 2 status = $GETDVIW (DEVNAM = devnam_desc,
188 0291 2 ITMLST = itmlst);
```


PURGE
V04-000

N 10
15-Sep-1984 23:39:44
14-Sep-1984 12:18:48

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```

: 189      0292 3      IF NOT .status
: 190      0293      THEN
: 191      0294      SIGNAL_STOP (.status);
: 192      0295      END;
: 193      0296
: 194      0297 2      IF .buffer EQL dvi$c_acp_f11v2
: 195      0298      THEN purge_ods2_files (.fab_block)
: 196      0299      ELSE build_list(.fab_block);
: 197      0300
: 198      0301 2      RETURN true;
: 199      0302 1      END;
```

```

: If this is an ODS-2 disk
: then use optimized purge routine
: else, use old one.
```

.TITLE PURGE
.IDENT \V04-000\

.PSECT \$OWNS\$,NOEXE,2

00000000 00000 VERSIONS:

00000000 00004 PREV_NAME_LEN: .LONG 0

00000000 00008 PREV_NAME_LEN: .LONG 0

00000000 00107 PREV_DIR_LEN: .BLKB 255

00000000 00108 PREV_DIR_LEN: .BLKB 1

00000000 0010C PREV_DIR_LEN: .LONG 0

00000000 0010C PREV_DIR_LEN: .BLKB 255

.PSECT \$GLOBALS\$,NOEXE,2

00000000 00000 VERSION_LIST:: .LONG 0

.EXTRN DEL\$SEARCH_ERROR

.EXTRN DEL\$FILE_ERROR, LIB\$FILE_SCAN

.EXTRN LIB\$SET_ERASE, LIB\$CVT_DTB

.EXTRN LIB\$GET_VM, LIB\$FREE_VM

.EXTRN LIB\$QUAC_FILE_MATCH

.EXTRN SCAN_CONTEXT, DEL\$CLI_STATUS

.EXTRN DEL\$KEEPVER_VAL

.EXTRN DEL\$FILES_DELETED

.EXTRN DEL\$FILE_SIZE, DEL\$BLOCKS_DELETED

.EXTRN DEL\$CONTEXT, LIB\$QUIPRO

.EXTRN LIB\$_FILFAIMAT, SYS\$GETDVIW

.PSECT \$CODE\$,NOWRT,2

.ENTRY PURGE_FILES, Save R2

SUBL2 #24, SP

MOVL FAB_BLOCK, R2

MOVL 40(R2), R0

CLRL BUFFER

BBS #3, 64(R2), 1\$

BBS #5, 65(R2), 2\$

BRB 5\$

```

                                0004 00000
                                18 C2 00002
                                5E AC D0 00005
                                52 04 A2 D0 00009
                                50 28 7E D4 0000D
                                07 03 E0 0000F
                                3F 40 41 A2 05 E0 00014
                                56 11 00019
```

: 0235

: 0267

: 0275

: 0276

: 0278

PURGE
V04-000

B 11
15-Sep-1984 23:39:44
14-Sep-1984 12:18:48

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DISK\$VMSMASTER:[DELETE.SRC]PURGE.B32;1
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38	41	A2		05	E0	0001B	1\$:	BBS	#5, 65(R2), 2\$..	0280
	14	AE	39	A0	9A	00020		MOVZBL	57(R0), DEVNAM_DESC	..	0283
	18	AE	44	A0	D0	00025		MOVL	68(R0), DEVNAM_DESC+4	..	0284
	04	AE	00420004	8F	D0	0002A		MOVL	#4325380, ITMLST	..	0285
	08	AE		6E	9E	00032		MOVAB	BUFFER, ITMLST+4	..	0287
			0C	AE	7C	00036		CLRQ	ITMLST+8	..	0288
				7E	7C	00039		CLRQ	-(SP)	..	0291
				7E	7C	0003B		CLRQ	-(SP)	..	
			14	AE	9F	0003D		PUSHAB	ITMLST	..	
			28	AE	9F	00040		PUSHAB	DEVNAM_DESC	..	
				7E	7C	00043		CLRQ	-(SP)	..	
00000000G	00			08	FB	00045		CALLS	#8, SYSSGETDVIW	..	0292
	09			50	EB	0004C		BLBS	STATUS, 2\$..	0294
00000000G	00			50	DD	0004F		PUSHL	STATUS	..	
	02			01	FB	00051		CALLS	#1, LIB\$STOP	..	
				6E	D1	00058	2\$:	CMPL	BUFFER, #2	..	0297
				09	12	0005B		BNEQ	3\$..	
				52	DD	0005D		PUSHL	R2	..	0298
0000V	CF			01	FB	0005F		CALLS	#1, PURGE_ODS2_FILES	..	
				07	11	00064		BRB	4\$..	
				52	DD	00066	3\$:	PUSHL	R2	..	0299
0000V	CF			01	FB	00068		CALLS	#1, BUILD_LIST	..	
	50			01	D0	0006D	4\$:	MOVL	#1, R0	..	0301
					04	00070		RET		..	
				50	D4	00071	5\$:	CLRL	R0	..	0302
					04	00073		RET		..	

; Routine Size: 116 bytes, Routine Base: \$CODE\$ + 0000

; 200 0303 1


```
202 0304 1 ROUTINE build_list (fab_block): NOVALUE =
203 0305 1
204 0306 1 ---
205 0307 1
206 0308 1 Functional description
207 0309 1
208 0310 1 This routine is called as an action routine from the directory wildcard
209 0311 1 searching process. It is given a FAB containing the full name
210 0312 1 of the file to be processed. It is used when purging an ods-1 disk to
211 0313 1 build the filenames into an ods-2 list.
212 0314 1
213 0315 1 Input parameters
214 0316 1
215 0317 1 fab_block = Address of FAB
216 0318 1
217 0319 1 Output parameters
218 0320 1
219 0321 1 None
220 0322 1
221 0323 1 ----
222 0324 1
223 0325 2 BEGIN
224 0326 2
225 0327 2 MAP
226 0328 2 fab_block: REF $BBLOCK; ! Address of FAB
227 0329 2
228 0330 2 BIND
229 0331 2 nam = .fab_block [fab$l_nam]: $BBLOCK; ! Address of NAM
230 0332 2
231 0333 2 LOCAL
232 0334 2 status, ! Status code
233 0335 2 dir_len, ! Length of device/directory
234 0336 2 version, ! Version number in binary form
235 0337 2 length, ! Length of new version entry
236 0338 2 entry: REF VECTOR, ! Address of new version entry
237 0339 2 prev: REF VECTOR, ! Address of previous entry scanned
238 0340 2 curr: REF VECTOR; ! Address of current entry scanned
239 0341 2
240 0342 2
241 0343 2 ! If we have reached a new directory, then peruse the linked
242 0344 2 list of versions and delete the all but the # explicitly kept.
243 0345 2
244 0346 2
245 0347 2 dir_len = .nam [nam$b_node] + .nam [nam$b_dev] + .nam [nam$b_dir];
246 0348 2
247 0349 2 IF CH$NEQ( ! If new directory
248 0350 2 .prev_dir_len, prev_dir,
249 0351 2 .dir_len, .nam [nam$l_rsa], 0)
250 0352 2 THEN
251 0353 2 BEGIN
252 0354 2 CH$MOVE(.dir_len, .nam [nam$l_rsa], prev_dir);
253 0355 2 prev_dir_len = .dir_len;
254 0356 2 purge_ods1_directory(version_list); ! Delete old versions
255 0357 2 END;
256 0358 2
257 0359 2
258 0360 2 ! Convert the version string to binary form
```



```
259 0361 2 !
260 0362 2
261 0363 2 status = LIB$CVT_DTB(.nam [nam$b_ver]-1, ! Store version in binary
262 0364 2 .nam [nam$l_ver]+1,
263 0365 2 version);
264 0366 2 IF NOT .status ! If error converting value,
265 0367 2 THEN
266 0368 2 BEGIN
267 0369 2 SIGNAL(.status); ! signal the error
268 0370 2 RETURN;
269 0371 2 END;
270 0372 2
271 0373 2
272 0374 2 Add this version to the ordered linked list of files for this directory.
273 0375 2 This list is ordered first by file name & type in ascending order, and
274 0376 2 then by version in descending order (this is the same as ODS-2).
275 0377 2
276 0378 2
277 0379 2 length = 6*4 + .nam [nam$b_rsl]; ! Length of overhead plus filespec
278 0380 2 status = LIB$GET_VM(length,entry); ! Allocate storage for entry
279 0381 2 IF NOT .status ! If error allocating storage,
280 0382 2 THEN
281 0383 2 SIGNAL_STOP(.status); ! then signal the error
282 0384 2
283 0385 2 entry [1] = .nam [nam$b_name] + .nam [nam$b_type]; ! Length of name/type
284 0386 2 entry [2] = entry [6]; ! Address of name/type
285 0387 2 + (.nam [nam$l_name] - .nam [nam$l_rsa]);
286 0388 2 entry [3] = .version; ! Store binary version number
287 0389 2 entry [4] = .nam [nam$b_rsl]; ! Store length of filespec
288 0390 2 entry [5] = entry [6]; ! and address of filespec
289 0391 2 CH$MOVE(.nam [nam$b_rsl], .nam [nam$l_rsa], entry [6]); ! Store full filespec
290 0392 2
291 0393 2 prev = version list; ! Address of previous entry
292 0394 2 curr = .prev [0]; ! Start at first entry
293 0395 2
294 0396 2 WHILE .curr NEQ 0 ! For each entry in list,
295 0397 2 DO
296 0398 2 BEGIN
297 0399 2 LOCAL comparison; ! -1 if less, 0 if equal, 1 if greater
298 0400 2 comparison = CH$COMPARE(.entry [1], .entry [2],
299 0401 2 .curr [1], .curr [2], 0); ! Compare new to old name/type
300 0402 2 IF .comparison LSS 0 ! If found place to insert entry,
301 0403 2 OR (.comparison EQL 0 ! (ascending order by name/type,
302 0404 2 AND .entry [3] GTRU .curr [3]) ! (then descending order by version)
303 0405 2 THEN
304 0406 2 EXITLOOP; ! then exit the loop
305 0407 2 prev = .curr; ! Save address of previous entry done
306 0408 2 curr = .curr [0]; ! and link to next in list
307 0409 2 END;
308 0410 2
309 0411 2 entry [0] = .prev [0]; ! Make new entry point to next in list
310 0412 2 prev [0] = .entry; ! Make previous entry point to new one
311 0413 2
312 0414 2 RETURN;
313 0415 2
314 0416 2 END;
```


				01FC 00000 BUILD_LIST:				
			58	0000'	CF 9E 00002	.WORD	Save R2,R3,R4,R5,R6,R7,R8	0304
			5E		OC C2 00007	MOVAB	PREV_DIR_LEN, R8	
			50	04	AC D0 0000A	SUBL2	#12, -SP	0331
			57	28	A0 D0 0000E	MOVL	FAB BLOCK, R0	
			50	38	A7 9A 00012	MOVL	40(R0), R7	0347
			51	39	A7 9A 00016	MOVZBL	56(R7), R0	
			50		51 C0 0001A	MOVZBL	57(R7), R1	
			56		3A A7 9A 0001D	ADDL2	R1, R0	
			56		50 C0 00021	MOVZBL	58(R7), DIR_LEN	
56	00	04	A8		68 2D 00024	ADDL2	R0, DIR_LEN	
				04	B7 0002A	CMPC5	PREV_DIR_LEN, PREV_DIR, #0, DIR_LEN, @4(R7)	0349
					12 13 0002C	BEQL	1\$	
04	A8	04	B7		56 28 0002E	MOVC3	DIR_LEN, @4(R7), PREV_DIR	0354
			68		56 D0 00034	MOVL	DIR_LEN, PREV_DIR_LEN	0355
		0000V	CF	0000'	CF 9F 00037	PUSHAB	VERSION_LIST	0356
					01 FB 0003B	CALLS	#1, PURGE_ODS1_DIRECTORY	
					5E DD 00040	PUSHL	SP	0363
	7E	54	A7		01 C1 00042	ADDL3	#1, 84(R7), -(SP)	0364
			7E	3D	A7 9A 00047	MOVZBL	61(R7), -(SP)	0365
					6E D7 0004B	DECL	(SP)	
		00000000G	00		03 FB 0004D	CALLS	#3, LIB\$CVT_DTB	
			52		50 D0 00054	MOVL	R0, STATUS	
			0A		52 E8 00057	BLBS	STATUS, 2\$	0366
					52 DD 0005A	PUSHL	STATUS	0369
		00000000G	00		01 FB 0005C	CALLS	#1, LIB\$SIGNAL	
					04 00063	RET		0368
		08	AE	03	A7 9A 00064	MOVZBL	3(R7), LENGTH	0379
		08	AE		18 C0 00069	ADDL2	#24, LENGTH	
				04	AE 9F 0006D	PUSHAB	ENTRY	0380
				OC	AE 9F 00070	PUSHAB	LENGTH	
		00000000G	00		02 FB 00073	CALLS	#2, LIB\$GET_VM	
			52		50 D0 0007A	MOVL	R0, STATUS	
			09		52 E8 0007D	BLBS	STATUS, 3\$	0381
					52 DD 00080	PUSHL	STATUS	0383
		00000000G	00		01 FB 00082	CALLS	#1, LIB\$STOP	
			56	04	AE D0 00089	MOVL	ENTRY, R6	0385
			50	3B	A7 9A 0008D	MOVZBL	59(R7), R0	
			51	3C	A7 9A 00091	MOVZBL	60(R7), R1	
04	A6		50		51 C1 00095	ADDL3	R1, R0, 4(R6)	
	50	4C	A7	04	A7 C3 0009A	SUBL3	4(R7), 76(R7), R0	0387
		08	A6	18	A046 9E 000A0	MOVAB	24(R0)[R6], 8(R6)	
		0C	A6		6E D0 000A6	MOVL	VERSION, 12(R6)	0388
		10	A6	03	A7 9A 000AA	MOVZBL	3(R7), 16(R6)	0389
		14	A6	18	A6 9E 000AF	MOVAB	24(R6), 20(R6)	0390
			50	03	A7 9A 000B4	MOVZBL	3(R7), R0	0391
18	A6	04	B7		50 28 000B8	MOVC3	R0, @4(R7), 24(R6)	
			57	0000'	CF 9E 000BE	MOVAB	VERSION_LIST, PREV	0393
			54		67 D0 000C3	MOVL	(PREV), -CURR	0394
					28 13 000C6	BEQL	7\$	0396
			55		01 D0 000C8	MOVL	#1, R5	0400
04	A4	00	B6	04	A6 2D 000CB	CMPC5	4(R6), @8(R6), #0, 4(CURR), @8(CURR)	

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DISK\$VMSMASTER:[DELETE.SRC]PURGE.B32;1 (4)


```
316 0417 1 GLOBAL ROUTINE purge_ods1_directory (list) : NOVALUE =
317 0418 1
318 0419 1 ++
319 0420 1 Functional description:
320 0421 1
321 0422 1 This routine purges all versions beyond the number explicitly kept for
322 0423 1 an ods-1 directory.
323 0424 1
324 0425 1 Inputs:
325 0426 1
326 0427 1 list = Address of listhead of version list
327 0428 1 0) link to next entry
328 0429 1 1-2) descriptor of file name & type
329 0430 1 3) version number in binary
330 0431 1 4-5) descriptor of filespec
331 0432 1 6) File specification follows
332 0433 1
333 0434 1 Outputs:
334 0435 1
335 0436 1 None, the old versions are deleted.
336 0437 1 ---
337 0438 1
338 0439 2 BEGIN
339 0440 2
340 0441 2 BIND context = .del$context : BITVECTOR[32];
341 0442 2
342 0443 2 OWN
343 0444 2 nam: $NAM(), ! NAM used for deleting open files
344 0445 2 xabpro: $XABPRO(), ! XAB needed for common qualifiers package
345 0446 2 xabdat: $XABDAT(NXT = xabpro), ! XAB needed for common qualifiers package
346 P 0447 2 fab: $FAB(NAM = nam, ! FAB used for deleting versions
347 0448 2 XAB = xabdat); ! Chain XAB's to FAB.
348 0449 2
349 0450 2 LOCAL
350 0451 2 status,
351 0452 2 prev_name: VECTOR [2], ! Descriptor of previous name & type
352 0453 2 prev_buffer: VECTOR [nam$C_maxrss,BYTE], ! Buffer to hold previous name/type
353 0454 2 length, ! Length of current entry
354 0455 2 entry: REF VECTOR, ! Current entry in list
355 0456 2 next; ! Next entry in list
356 0457 2
357 0458 2
358 0459 2 prev_name [0] = 0; ! Initialize previous name/type = null
359 0460 2 entry = ..list; ! Start at first entry in list
360 0461 2
361 0462 2 WHILE .entry NEQ 0 ! For each entry in list,
362 0463 2 DO
363 0464 2 BEGIN
364 0465 2 IF CH$NEQ(.prev_name [0], .prev_name [1],
365 0466 2 .entry [1], .entry [2], 0) ! If new file name & type,
366 0467 2 THEN
367 0468 2 BEGIN
368 0469 2 versions = 0; ! Reset number of versions seen
369 0470 2 context[0] = 0; ! Prevent confirm message.
370 0471 2 prev_name [0] = .entry [1]; ! Save "current" name & type
371 0472 2 prev_name [1] = prev_buffer;
372 0473 2 CH$MOVE(.entry [1], .entry [2], .prev_name [1]);
```

```

373 0474      END;
374 0475
375 0476      fab [fab$b_fns] = .entry [4];      ! Copy length and address
376 0477      fab [fab$l_fna] = .entry [5];      ! of string into FAB and
377 0478      nam [nam$b_rsl] = .entry [4];      ! NAM blocks.
378 0479      nam [nam$l_rsa] = .entry [5];
379 0480
380 0481      purge_this_file(fab);
381 0482
382 0483      !
383 0484      Delete the storage used for this version entry
384 0485
385 0486
386 0487      next = .entry [0];
387 0488      length = 6*4 + .entry [4];
388 0489      status = LIB$FREE_VM(length,entry);
389 0490      IF NOT .status
390 0491      THEN
391 0492          SIGNAL(.status);
392 0493      entry = .next;
393 0494      END;
394 0495
395 0496      .list = 0;
396 0497
397 0498      ! Re-init listhead
      1 END;
```

			.PSECT	\$OWNS,NOEXE,2
	02	0020B	.BLKB	1
	60	0020C	.BYTE	2
	00	0020D	.BYTE	96
	00	0020E	.BYTE	0
	00	0020F	.BYTE	0
00000000	00	00210	.LONG	0
	00	00214	.BYTE	0
	00	00215	.BYTE	0
	00	00216	.BYTE	0
	00	00217	.BYTE	0
00000000	00	00218	.LONG	0
00000000	00	0021C	.LONG	0
0000#	00	00220	.WORD	0[8]
0000#	00	00230	.WORD	0[3]
0000#	00	00236	.WORD	0[3]
00000000	00	0023C	.LONG	0
00000000	00	00240	.LONG	0
	00	00244	.BYTE	0
	00	00245	.BYTE	0
	00	00246	.BYTE	0
	00	00247	.BYTE	0
	00	00248	.BYTE	0
	00	00249	.BYTE	0
00#	00	0024A	.BYTE	0[2]
00000000	00	0024C	.LONG	0
00000000	00	00250	.LONG	0
00000000	00	00254	.LONG	0


```
00000000 00258 .LONG 0
00000000 0025C .LONG 0
00000000 00260 .LONG 0
00000000# 00264 .LONG 0[2]
13 0026C XABPRO: .BYTE 19
58 0026D .BYTE 88
0000 0026E .WORD 0
00000000 00270 .LONG 0
FFFF 00274 .WORD -1
00 00276 .BYTE 0
00 00277 .BYTE 0
0000 0000 00278 .WORD 0, 0
00 0027C .BYTE 0
00 0027D .BYTE 0
0000 0027E .WORD 0
00000000 00280 .LONG 0
00000000 00284 .LONG 0
0000 00288 .WORD 0
0000 0028A .WORD 0
00000000 0028C .LONG 0
00000000 00290 .LONG 0
00294 .BLKB 48
12 002C4 XABDAT: .BYTE 18
2C 002C5 .BYTE 44
0000 002C6 .WORD 0
00000000' 002C8 .ADDRESS XABPRO
0000 002CC .WORD 0
0000 002CE .WORD 0
00000000# 002D0 .LONG 0[2]
00000000# 002D8 .LONG 0[2]
00000000 002E0 .LONG 0
00000000 002E4 .LONG 0
00000000# 002E8 .LONG 0[2]
03 002F0 FAB: .BYTE 3
50 002F1 .BYTE 80
0000 002F2 .WORD 0
00000000 002F4 .LONG 0
00000000 002F8 .LONG 0
00000000 002FC .LONG 0
00000000 00300 .LONG 0
0000 00304 .WORD 0
02 00306 .BYTE 2
00 00307 .BYTE 0
00000000 00308 .LONG 0
00 0030C .BYTE 0
00 0030D .BYTE 0
00 0030E .BYTE 0
02 0030F .BYTE 2
00000000 00310 .LONG 0
00000000' 00314 .ADDRESS XABDAT
00000000' 00318 .ADDRESS NAM
00000000 0031C .LONG 0
00000000 00320 .LONG 0
00 00324 .BYTE 0
00 00325 .BYTE 0
0000 00326 .WORD 0
00000000 00328 .LONG 0
```

```

.WORD      0
.BYTE      0
.BYTE      0
.LONG      0
.LONG      0
.WORD      0
.BYTE      0
.BYTE      0
.LONG      0

```

.ENTRY	PURGE_ODS1_DIRECTORY, Save R2,R3,R4,R5,R6,-	0417
	R7,R8,R9	
MOVAB	-268(SP), SP	
MOVL	DELSCONTEXT, R9	0441
CLRL	PREV_NAME	0459
PUSHL	@LIST	0460
MOVL	ENTRY, R6	0462
BEQL	4\$	
CMPC5	PREV_NAME, @PREV_NAME+4, #0, 4(R6), @8(R6)	0465
BEQL	2\$	
CLRL	VERSIONS	0469
BICB2	#1, (R9)	0470
MOVL	4(R6), PREV_NAME	0471
MOVAB	PREV_BUFFER, PREV_NAME+4	0472
MOVC3	4(R6), @8(R6), @PREV_NAME+4	0473
MOVB	16(R6), FAB+52	0476
MOVL	20(R6), FAB+44	0477
MOVB	16(R6), NAM+3	0478
MOVL	20(R6), NAM+4	0479
PUSHAB	FAB	0481
CALLS	#1, PURGE_THIS_FILE	
MOVL	(R6), NEXT	0487
ADDL3	#24, 16(R6), LENGTH	0488
PUSHL	SP	0489
PUSHAB	LENGTH	
CALLS	#2, LIB\$FREE_VM	
MOVL	R0, STATUS	
BLBS	STATUS, 3\$	0490
PUSHL	STATUS	0492
CALLS	#1, LIB\$SIGNAL	
MOVL	NEXT, ENTRY	0493
BRB	1\$	0462
CLRL	@LIST	0496
RET		0498

; Routine Size: 139 bytes, Routine Base: \$CODE\$ + 016B


```
0499 1 ROUTINE purge_ods2_files (fab_block) : NOVALUE =
0500 1
0501 1 ++
0502 1 Functional description:
0503 1
0504 1 This routine purges all versions beyond the number explicitly kept for
0505 1 an ods-2 disk.
0506 1
0507 1 Inputs:
0508 1
0509 1 fab_block = Address of FAB
0510 1
0511 1 Outputs:
0512 1
0513 1 --- None, the old versions are deleted.
0514 1
0515 1
0516 2 BEGIN
0517 2
0518 2 MAP
0519 2 fab_block : REF $BBLOCK; ! Address of FAB
0520 2
0521 2 BIND
0522 2 context = .del$context : BITVECTOR[32]; ! Context bitmap for common qualifier package.
0523 2 nam = .fab_block [fab$l_nam] : $BBLOCK; ! Address of NAM block.
0524 2
0525 2 LOCAL
0526 2 name_len; ! Size of a filename.
0527 2
0528 2
0529 2 name_len = .nam [nam$b_node] + .nam [nam$b_dev] + .nam [nam$b_dir] +
0530 2 .nam [nam$b_name] + .nam [nam$b_type];
0531 2
0532 2 IF CH$NEQ( ! If new device, directory, name or type
0533 2 .prev_name_len, prev_name,
0534 2 .name_len, .nam [nam$l_rsa], 0)
0535 2 THEN ! Then
0536 2 BEGIN
0537 2 CH$MOVE(.name_len, .nam [nam$l_rsa], prev_name); ! Save new file spec,
0538 2 prev_name_len = .name_len; ! and its size.
0539 2 versions = 1; ! Reset the version count.
0540 2 context[0] = 0; ! Disable /CONFIRM.
0541 2 RETURN;
0542 2 END
0543 2 ELSE
0544 2 purge_this_file(.fab_block); ! Attempt to purge this file.
0545 2
0546 1 END;
```

01FC 00000 PURGE_ODS2 FILES:

```
58 0000' CF 9E 00002 .WORD Save R2,R3,R4,R5,R6,R7,R8 : 0499
57 00000000G 00 D0 00007 MOVAB PREV NAME_LEN, R8 : 0522
MOVBL DEL$CONTEXT, R7
```

PURGE
V04-000

L 11
15-Sep-1984 23:39:44
14-Sep-1984 12:18:48

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DISK\$VMSMASTER:[DELETE.SRC]PURGE.B32;1
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56	00	04	55	04	AC	DO	0000E	MOVL	FAB BLOCK, R5	:	0523
			54	28	A5	DO	00012	MOVL	40(R5), R4	:	
			50	38	A4	9A	00016	MOVZBL	56(R4), R0	:	0529
			51	39	A4	9A	0001A	MOVZBL	57(R4), R1	:	
			50		51	CO	0001E	ADDL2	R1, R0	:	
			51	3A	A4	9A	00021	MOVZBL	58(R4), R1	:	
			50		51	CO	00025	ADDL2	R1, R0	:	
			51	3B	A4	9A	00028	MOVZBL	59(R4), R1	:	0530
			50		51	CO	0002C	ADDL2	R1, R0	:	0529
			56	3C	A4	9A	0002F	MOVZBL	60(R4), NAME_LEN	:	0530
			56		50	CO	00033	ADDL2	R0, NAME_LEN	:	
			56		68	2D	00036	CMPC5	PREV_NAME_LEN, PREV_NAME, #0, NAME_LEN, -	:	0532
				04	B4		0003C		@4(R4)	:	
					11	13	0003E	BEQL	1\$:	
	04	A8			56	28	00040	MOVCL3	NAME_LEN, @4(R4), PREV NAME	:	0537
					56	DO	00046	MOVL	NAME_LEN, PREV_NAME_LEN	:	0538
		FC			01	DO	00049	MOVL	#1, VERSIONS	:	0539
					01	8A	0004D	BICB2	#1, (R7)	:	0540
						04	00050	RET		:	0536
					55	DD	00051	PUSHL	R5	:	0544
		0000V	CF		01	FB	00053	CALLS	#1, PURGE_THIS_FILE	:	
					04		00058	RET		:	0546

; Routine Size: 89 bytes, Routine Base: \$CODE\$ + 01F6


```

448 0547 1 ROUTINE purge_this_file (fab_block) : NOVALUE =
449 0548 1
450 0549 1 ++
451 0550 1 Functional description:
452 0551 1
453 0552 1 This routine accepts a filename, and if it exceeds the /KEEP qualifier,
454 0553 1 attempts to delete the file.
455 0554 1
456 0555 1 Inputs:
457 0556 1
458 0557 1 fab_block = Address of the FAB
459 0558 1
460 0559 1 Outputs:
461 0560 1
462 0561 1 None, the file is deleted if /KEEP qualifier is exceeded.
463 0562 1
464 0563 1 ---
465 0564 2 BEGIN
466 0565 2
467 0566 2 MAP
468 0567 2 fab_block : REF $BBLOCK;
469 0568 2
470 0569 2 BIND
471 0570 2 context = .del$context : BITVECTOR[32],
472 0571 2 nam = .fab_block [fab$l_nam] : $BBLOCK,
473 0572 2 fab = .fab_block : $BBLOCK;
474 0573 2
475 0574 2 LOCAL
476 0575 2 prompt_desc, ! Address of prompt arguments
477 0576 2 name_desc : VECTOR[2], ! Descriptor for file name.
478 0577 2 status;
479 0578 2
480 0579 2 name_desc[0] = .nam[nam$b_rsl]; ! Save file name and size.
481 0580 2 name_desc[1] = .nam[nam$l_rsa]; ! Point prompt_desc to it.
482 0581 2 prompt_desc = name_desc;
483 0582 2
484 0583 2
485 0584 2 IF .del$cli_status [del$v_log_msg] OR ! If /LOG requested,
486 0585 2 .del$cli_status [del$v_open_file] ! or open_file bit set
487 0586 2 THEN
488 0587 2 BEGIN
489 0588 2 fab [fab$l_alq] = 0; ! Set block size of file to be zero because
490 0589 2 $OPEN (FAB = fab); ! Open the file.
491 0590 2 del$file_size = .fab [fab$l_alq]; ! Get block size of file.
492 0591 2 END;
493 0592 2
494 0593 2 IF .del$cli_status[del$v_conf_prompt] ! If user said /CONFIRM, and
495 0594 2 AND (.versions EQL .de[$keepver_val] ! we have exceeded /KEEP limit
496 0595 2 THEN context[0] = 1; ! then enable /CONFIRM option.
497 0596 2
498 0597 2 status = lib$qual_file_match( del$context, fab, 0, ! Does this file meet purge criteria?
499 0598 2 $descriptor('!AS, delete? [N]:'),
500 0599 2 prompt_desc, 0);
501 0600 2
502 0601 2 IF NOT .status ! If failure status returned,
503 0602 2 THEN
504 0603 2 BEGIN
```

```

505 0604 3 IF .status EQL lib$_quipro      ! If user said CNTRL/Z
506 0605 3 THEN                          ! then stop processing.
507 0606 3   del$cli_status [del$_cntrl_z_stop] = TRUE;
508 0607 3 IF (.status NEQ lib$_quipro) AND ! If user said CNTRL/Z
509 0608 3   (.status NEQ lib$_filfaimat)    ! or file did not meet criteria
510 0609 3 THEN                          ! then do not report an error.
511 0610 3   del$file_error(msg$_filnotacc,fab);
512 0611 3   $CLOSE ( FAB = fab);          ! Ask RMS to close the file.
513 0612 3 END
514 0613 2 ELSE
515 0614 2   versions = .versions + 1;      ! Increment versions seen
516 0615 2
517 0616 2 IF (.versions GTR .del$keepver_val) AND .status ! If past specified limit,
518 0617 2 THEN                          ! then delete the file as we have exhausted
519 0618 2   BEGIN                          ! the keep version count.
520 0619 2   IF .del$cli_status [del$_erase] ! If /ERASE requested
521 0620 2   THEN
522 0621 2   BEGIN
523 0622 2   $CLOSE (FAB = fab);            ! Close the file so that we cn do it.
524 0623 2   status = lib$_set_erase (name_desc); ! Set ERASE bit in header.
525 0624 2   fab[fab$_l_sts] = .status;      ! and save the status.
526 0625 2   fab[fab$_l_stv] = 0;
527 0626 2   END;
528 0627 2
529 0628 2 IF .status
530 0629 2 THEN                          ! If successful so far,
531 0630 2   BEGIN
532 0631 2   IF .fab [fab$_w_ifi] NEQ 0      ! If the file is open,
533 0632 2   THEN
534 0633 2   BEGIN
535 0634 2   fab [fab$_v_dlt] = TRUE;        ! then set the deletion bit,
536 0635 2   status = $CLOSE ( FAB = fab); ! and ask RMS to close and delete the file.
537 0636 2   fab [fab$_v_dlt] = FALSE;     ! Turn off the delete bit to avoid side effects.
538 0637 2   END
539 0638 2   ELSE
540 0639 2   status = $ERASE ( FAB = fab);   ! Erase the file.
541 0640 2   END;
542 0641 2
543 0642 2 IF .status
544 0643 2 THEN                          ! If successful,
545 0644 2   BEGIN
546 0645 2   IF .del$cli_status [del$_log_msg] THEN ! If logging requested,
547 0646 2   BEGIN
548 0647 2   del$files_deleted = .del$files_deleted + 1; ! Increment number of files purged
549 0648 2   del$blocks_deleted = .del$blocks_deleted + .del$file_size; ! Increment total blocks deleted by t
550 0649 2   put_message(msg$_filpur,3,name_desc, ! Output log message
551 0650 2   .del$file_size);
552 0651 2   END;
553 0652 2   END
554 0653 2 ELSE
555 0654 2   del$file_error(msg$_filnotpur,fab) ! Delete failed, output message giving reason
556 0655 2
557 0656 2 END;
558 0657 2
559 0658 2 $CLOSE (FAB=fab);              ! Make sure file is closed!
560 0659 2
561 0660 1 END;
```


[illegible]

PURGE
V04-000

C 12
15-Sep-1984 23:39:44
14-Sep-1984 12:18:48

VAX-11 Bliss-32 V4.0-742
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50	68	9E	0009C	4\$:	MOVAB	LIB\$ QUIPRO, R0	: 0607
50	53	D1	0009F		CMPL	STATUS, R0	
	17	13	000A2		BEQL	5\$	
50	00	9E	000A4		MOVAB	LIB\$ FILFAIMAT, R0	0608
50	53	D1	000AB		CMPL	STATUS, R0	
	0B	13	000AE		BEQL	5\$	
	52	DD	000B0		PUSHL	R2	0610
	8F	DD	000B2		PUSHL	#9638712	
69	02	FB	000B8		CALLS	#2, DEL\$FILE_ERROR	
	52	DD	000BB	5\$:	PUSHL	R2	0611
65	01	FB	000BD		CALLS	#1, SYSS\$CLOSE	
	02	11	000C0		BRB	7\$	0601
	6B	D6	000C2	6\$:	INCL	VERSIONS	0614
67	6B	D1	000C4	7\$:	CMPL	VERSIONS, DEL\$KEEPVER_VAL	0617
	73	15	000C7		BLEQ	11\$	
7D	53	E9	000C9		BLBC	STATUS, 13\$	
19	64	04	E1	000CC	BBC	#4, DEL\$CLI_STATUS, 8\$	0620
	52	DD	000D0		PUSHL	R2	0623
65	01	FB	000D2		CALLS	#1, SYSS\$CLOSE	
	AE	9F	000D5		PUSHAB	NAME_DESC	0624
00000000G	00	01	FB	000D8	CALLS	#1, LIB\$SET_ERASE	
	53	50	D0	000DF	MOVL	R0, STATUS	
08	A2	53	D0	000E2	MOVL	STATUS, 8(R2)	0625
		A2	D4	000E6	CLRL	12(R2)	0626
52	53	E9	000E9	8\$:	BLBC	STATUS, 12\$	0629
	A2	B5	000EC		TSTW	2(R2)	0632
	14	13	000EF		BEQL	9\$	
05	A2	8F	88	000F1	BISB2	#128, 5(R2)	0635
	52	DD	000F6		PUSHL	R2	0636
65	01	FB	000F8		CALLS	#1, SYSS\$CLOSE	
53	50	D0	000FB		MOVL	R0, STATUS	
05	A2	8F	8A	000FE	BICB2	#128, 5(R2)	0637
	0C	11	00103		BRB	10\$	0632
	52	DD	00105	9\$:	PUSHL	R2	0640
00000000G	00	01	FB	00107	CALLS	#1, SYSS\$ERASE	
	53	50	D0	0010E	MOVL	R0, STATUS	
2A	53	E9	00111	10\$:	BLBC	STATUS, 12\$	0643
31	64	01	E1	00114	BBC	#1, DEL\$CLI_STATUS, 13\$	0646
	00	D6	00118		INCL	DEL\$FILES_DELETED	0648
	50	66	D0	0011E	MOVL	DEL\$FILE_SIZE, R0	0649
00000000G	00	50	C0	00121	ADDL2	R0, DEL\$BLOCKS_DELETED	
		50	DD	00128	PUSHL	R0	0651
		AE	9F	0012A	PUSHAB	NAME_DESC	
	03	DD	0012D		PUSHL	#3	
	8F	DD	0012F		PUSHL	#9638683	
00000000G	00	04	FB	00135	CALLS	#4, LIB\$SIGNAL	
	0B	11	0013C	11\$:	BRB	13\$	0643
	52	DD	0013E	12\$:	PUSHL	R2	0655
	8F	DD	00140		PUSHL	#9638448	
69	02	FB	00146		CALLS	#2, DEL\$FILE_ERROR	
	52	DD	00149	13\$:	PUSHL	R2	0658
65	01	FB	0014B		CALLS	#1, SYSS\$CLOSE	
	04	0014E			RET		0660

; Routine Size: 335 bytes, Routine Base: \$CODE\$ + 024F

PURGE
V04-000

D 12
15-Sep-1984 23:39:44
14-Sep-1984 12:18:48

VAX-11 Bliss-32 V4.0-742
DISK\$VMSMASTER:[DELETE.SRC]PURGE.B32;1
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: 563 0661 1 END
: 564 0662 0 ELUDOM

.EXTRN LIB\$SIGNAL, LIB\$STOP

PSECT SUMMARY

Name	Bytes	Attributes
\$GLOBALS	4	NOVEC, WRT, RD, NOEXE, NOSHR, LCL, REL, CON, NOPIC, ALIGN(2)
\$OWNS	832	NOVEC, WRT, RD, NOEXE, NOSHR, LCL, REL, CON, NOPIC, ALIGN(2)
\$CODE\$	926	NOVEC, NOWRT, RD, EXE, NOSHR, LCL, REL, CON, NOPIC, ALIGN(2)
\$SPLITS	28	NOVEC, NOWRT, RD, NOEXE, NOSHR, LCL, REL, CON, NOPIC, ALIGN(2)

Library Statistics

File	----- Total	Symbols Loaded	----- Percent	Pages Mapped	Processing Time
_S255\$DUA28:[SYSLIB]STARLET.L32;1	9776	85	0	581	00:02.3

COMMAND QUALIFIERS

: BLISS/CHECK=(FIELD,INITIAL,OPTIMIZE)/LIS=LISS:PURGE/OBJ=OBJ\$:PURGE MSRC\$:PURGE/UPDATE=(ENH\$:PURGE)

: 565 0663 0
: Size: 926 code + 864 data bytes
: Run Time: 00:44.7
: Elapsed Time: 00:55.1
: Lines/CPU Min: 890
: Lexemes/CPU-Min: 12378
: Memory Used: 147 pages
: Compilation Complete

0101 AH-BT13A-SE
VAX/VMS V4.0

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